

PATENT ABSTRACTS OF JAPAN

(11)Publication number :

08-333159

(43)Date of publication of application : 17.12.1996

(51)Int.CI.

C04B 35/49

H03H 3/02

(21)Application number : 07-136487

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(22)Date of filing :

02.06.1995

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(54) PIEZOELECTRIC CERAMIC COMPOSITION AND PRODUCTION OF PIEZOELECTRIC RESONATOR USING THE SAME

(57)Abstract:

PURPOSE: To obtain a piezoelectric resonator having small variation in piezoelectricity and resonant frequency in a humidified atmosphere and excellent in thermal shock resistance.
CONSTITUTION: A silver electrode 2 is formed on a piezoelectric ceramic 1 obtained by polarizing a sintered material of a piezoelectric ceramic composition comprising a main component expressed by

$Pb(Zn_{1/3}Nb_{2/3})_X TiYZrZ_0_3$

($X=0.01-0.50$, $Y=0.285-0.75$,

$Z=0.125-0.680$; $X+Y+Z=1$) added with

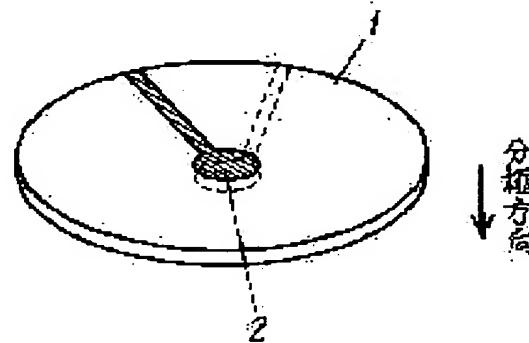
0.1-10.0wt.% of a compound of

$Pb(Me_{1/2}Te_{1/2})O_3$ (Me is at least one

kind of metal selected from the group

consisting of Mn, Co, Ni and Cu),

annealing at 0.4-0.8 times of Curie temperature for ≥ 1 hr and holding at a normal temperature for ≥ 48 hr and polishing.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's
decision of rejection]

[Kind of final disposal of application
other than the examiner's decision of
rejection or application converted
registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against
examiner's decision of rejection]

[Date of extinction of right]

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